

Maryland Historical Trust

Maryland Inventory of Historic Properties number: F-3-54

Name: MD 26 OVER Monocacy River

The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridge received the following determination of eligibility.

MARYLAND HISTORICAL TRUST	
Eligibility Recommended _____	Eligibility Not Recommended <u>X</u>
Criteria: <u>  </u> A <u>  </u> B <u>  </u> C <u>  </u> D Considerations: <u>  </u> A <u>  </u> B <u>  </u> C <u>  </u> D <u>  </u> E <u>  </u> F <u>  </u> G <u>  </u> None	
Comments: _____ _____ _____	
Reviewer, OPS: <u>Anne E. Bruder</u>	Date: <u>3 April 2001</u>
Reviewer, NR Program: <u>Peter E. Kurtze</u>	Date: <u>3 April 2001</u>

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MARYLAND INVENTORY OF HISTORIC BRIDGES  
HISTORIC BRIDGE INVENTORY  
MARYLAND STATE HIGHWAY ADMINISTRATION/  
MARYLAND HISTORICAL TRUST

MHT No. F 3-54

SHA Bridge No. 10025

Bridge name MD 26 over Monocacy River

**LOCATION:**

Street/Road name and number [facility carried] MD 26 (Liberty Road)

City/town Ceresville

Vicinity X

County Frederick

This bridge projects over: Road      Railway      Water X Land     

Ownership: State X County      Municipal      Other     

**HISTORIC STATUS:**

Is the bridge located within a designated historic district? Yes      No X  
National Register-listed district      National Register-determined-eligible district       
Locally-designated district      Other     

Name of district     

**BRIDGE TYPE:**

Timber Bridge     :

Beam Bridge      Truss -Covered      Trestle      Timber-And-Concrete     

Stone Arch Bridge     

Metal Truss Bridge X

Movable Bridge     :

Swing      Bascule Single Leaf      Bascule Multiple Leaf       
Vertical Lift      Retractable      Pontoon     

Metal Girder     :

Rolled Girder      Rolled Girder Concrete Encased       
Plate Girder      Plate Girder Concrete Encased     

Metal Suspension     

Metal Arch     

Metal Cantilever     

Concrete     :

Concrete Arch      Concrete Slab      Concrete Beam      Rigid Frame       
Other      Type Name

**DESCRIPTION:**

**Setting:** Urban \_\_\_\_\_ Small town X Rural \_\_\_\_\_

**Describe Setting:**

Bridge 10025 carries Maryland Route 26 over the Monocacy River in the vicinity of Ceresville, Frederick County. Route 26 runs generally in an east-west direction in the area while the Monocacy River flows north-south. The bridge is situated in a mixed commercial and residential area. A new bridge has been constructed adjacent to the downstream side of Bridge 10025. Bridge 10025 is currently undergoing rehabilitation and is closed to traffic. When the bridge is reopened it will carry westbound Route 26 across the river.

**Describe Superstructure and Substructure:**

Bridge 10025, constructed in 1932, is a two-span, camelback truss measuring 100.2 meters (328.81 feet) in total length. Both spans are identical, with eight panels and a length between bearings of 48.76 meters (159.99 feet). The top chord is constructed of steel beams with steel channel lattice bracing connected by rivets. The bottom chord is constructed of steel beams connected with rivets. The floor system has twelve steel stringers and steel floorbeams. All verticals are steel beams and all diagonals are steel channels. All connections are riveted. The width of the roadway is 7.9 meters (26 feet) on the west span and 8.2 meters (27 feet) on the east span. The west span has a distance of 9 meters (29.54 feet) between the centerline of the trusses, while the east span has a distance of 9.3 meters (30.54 feet) between the centerline of the trusses. There is no sidewalk on the bridge and the truss members are protected by concrete highway barriers. The bridge, which is aligned 90° to the streambed, is not posted and has a sufficiency rating of 57.6. The abutments are concrete with flared concrete wing walls, and there is one intermediate concrete pier.

**Discuss Major Alterations:**

The structure received a new lightweight concrete deck and concrete highway barriers in 1978. The bridge is currently closed to traffic and is in the processes of receiving a new bituminous road surface. The piers and abutments have been altered to accommodate the adjacent metal girder bridge. Inspection reports from 1994 to 1997 were not available in the State Highway Administration (SHA) files for this bridge. The inspection report from 1993, the latest available in the SHA files, indicates the truss members and bearings have areas of rust, there is some traffic damage to the bridge, and the abutments have areas of cracking and spalling.

**HISTORY:**

**WHEN was the bridge built** 1932

**This date is:** Actual X Estimated \_\_\_\_\_

**Source of date:** Plaque \_\_\_\_\_ Design plans \_\_\_\_\_ State bridge files/inspection form X

**Other (specify):** Although no plaque was observed during the field survey, state records indicate the bridge previously had a plaque showing the bridge was built by the American Bridge Company in 1932.

**WHY was the bridge built?**

The bridge was constructed in response to the need for more efficient transportation network and increased load capacity.

**WHO was the designer?**

State Roads Commission

**WHO was the builder?**

American Bridge Company

**WHY was the bridge altered?**

The bridge was altered to correct functional or structural deficiencies.

**Was this bridge built as part of an organized bridge-building campaign?**

There is no evidence that the bridge was built as part of an organized bridge building campaign.

**SURVEYOR/HISTORIAN ANALYSIS:**

**This bridge may have National Register significance for its association with:**

**A - Events \_\_\_\_\_ B- Person \_\_\_\_\_**  
**C- Engineering/architectural character \_\_\_\_\_**

The bridge was previously surveyed by the Frederick County Office of Historic Preservation in 1980; however, a determination of eligibility was not made by the Maryland Historical Trust. The bridge does not have National Register significance.

**Was the bridge constructed in response to significant events in Maryland or local history?**

This bridge was one of a large number of metal truss bridges built in Maryland in the late nineteenth and early twentieth centuries. Metal trusses built in the late nineteenth century were frequently of wrought iron construction and featured pinned connections. By the turn of the century, steel was the material of choice and connections were sometimes pinned and sometimes rivetted. By 1920, the truss type exhibited more heavily configured members and rivetted connections.

**General Truss Bridge Trends**

The first metal truss bridges in the United States were built to carry rail and canal traffic. A rapidly expanding railroad network, with needs for long spans, heavy load capacity and rapid construction, served as the impetus for advances in metal truss technology from the mid-nineteenth century to its close. The earliest metal truss forms of the United States were patented and introduced between 1830 and the Civil War, including the popular Pratt (1844) and Warren (1848) types.

From the Civil War through the end of the century metal truss technology improved in response to increasing loads and speeds, and new transportation needs; steel began to replace iron; numerous "bridge works" and "iron works" were established in the eastern U.S. for fabricating and shipping the truss components to the bridge site; and expanding road networks required a low cost, expedient bridge type.

**General Trends in Maryland**

In Maryland, the earliest metal truss bridges carried rail lines, including the Baltimore & Ohio (B&O) and the Baltimore and Susquehanna Railroads. As early as 1849, B&O Chief Engineer

Benjamin H. Latrobe recommended the construction of metal truss bridges for "large crossings"; in 1850 he reported "much satisfaction" with the future of iron bridges after constructing the metal truss bridge at Savage.

Numerous metal truss bridges were manufactured in Baltimore, the early industrial hub of bridge building activity in the state, from the 1850s through the 1880s. Among the early bridge builders in the 1850s and 1860s were former B&O employees, B.H. Latrobe and Wendell Bollman, founders of competing Baltimore bridge building companies. Historical research identified more than twenty-five bridge companies in the region that built truss bridges in Maryland between 1850 and 1920. Among these were the Wrought Iron Bridge Company, King Iron Bridge Company, Patapsco Bridge and Iron Works, Baltimore Bridge Company, Pittsburg Bridge Company, Penn Bridge Company, Smith Bridge Company, Groton Bridge and Manufacturing Company, Roanoke Iron and Bridge Company, York Bridge Company, Vincennes Bridge Company, Bethlehem Steel Company, American Bridge Company.

The location of the Baltimore & Ohio Railroad, Baltimore bridge fabricators, and the urban needs of the city and its environs resulted in the erection of numerous early truss bridges in Baltimore and the surrounding area. Initially constructed for the railroads, their use quickly came to replace the earlier timber bridges on Baltimore roads.

From Baltimore, the use of the metal truss spread to other parts of the state, with County Commissioners in the Piedmont and Appalachian Plateau counties erecting numerous metal trusses from the 1870s to the early twentieth century. Frederick County erected numerous truss spans during that time. Records indicate that in the early twentieth century the York Bridge Company built a number of metal trusses there, primarily Pratt but also Warren and Parker trusses. In the same county, King Iron Bridge Manufacturing Company erected several bowstring pony truss bridges.

Bridge 10025 is a Camelback truss, a subtype of the Pratt truss. The Pratt truss was first developed in 1844 under patent of Thomas and Caleb Pratt. Prevalent from the 1840s through the early twentieth century, the Pratt has diagonals in tension, verticals in compression, except for the hip verticals immediately adjacent to the inclined end posts of the bridge. Pratt trusses were initially built as a combination wood and iron truss, but were soon constructed in iron only. The Pratt type successfully survived the transition to iron construction as well as the second transition to steel usage. The Pratt truss inspired a large number of variations and modified subtypes during the nineteenth and early twentieth centuries. A Camelback truss is characterized by its distinctive polygonal top chord consisting of exactly five slopes. The Camelback truss was popular for through-spans primarily from its inception in the late nineteenth century through the mid-twentieth century.

**When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?**

There is no evidence that the construction of this bridge had a significant impact on the growth and development of this area.

**Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from the historic/visual character of the potential district?**

The bridge is located in an area which does not appear to be eligible for historic designation.

**Is the bridge a significant example of its type?**

The original abutments and piers were modified to accommodate the adjacent bridge, resulting in the loss of important character-defining elements. In addition, while the bridge is recognizable as an historic structure, the historic setting and associations of the bridge have been severely compromised by the construction of an adjacent metal girder bridge.

**Does the bridge retain integrity of important elements described in Context Addendum?**

This bridge is currently undergoing rehabilitation, and was altered in 1996-1997, resulting in the alteration of such character-defining elements as the original abutments and piers.

**Is the bridge a significant example of the work of a manufacturer, designer, and/or engineer?**

The bridge is not a significant example of the work of a manufacturer, designer, and/or engineer.

**Should the bridge be given further study before an evaluation of its significance is made?**

No further study of this bridge is required to evaluate its significance.

**BIBLIOGRAPHY:**

County inspection/bridge files \_\_\_\_ SHA inspection/bridge files  X

Other (list):

Frederick County Office of Historic Preservation, *Maryland Historical Trust Inventory Form for State Historic Sites Survey #F 3-54*. 1980.

P.A.C. Spero & Company and Louis Berger & Associates, *Historic Highway Bridges in Maryland: Historic Context Report*. Prepared for the Maryland State Highway Administration.

**SURVEYOR:**

Date bridge recorded  July 1997

Name of surveyor  Caroline Hall/Ryan McKay

Organization/Address  P.A.C. Spero & Co., 40 W. Chesapeake Avenue, Suite 412, Baltimore, Maryland 21204

Phone number  410-296-1635

FAX number  410-296-1670

## Maryland Historic Highway Bridges

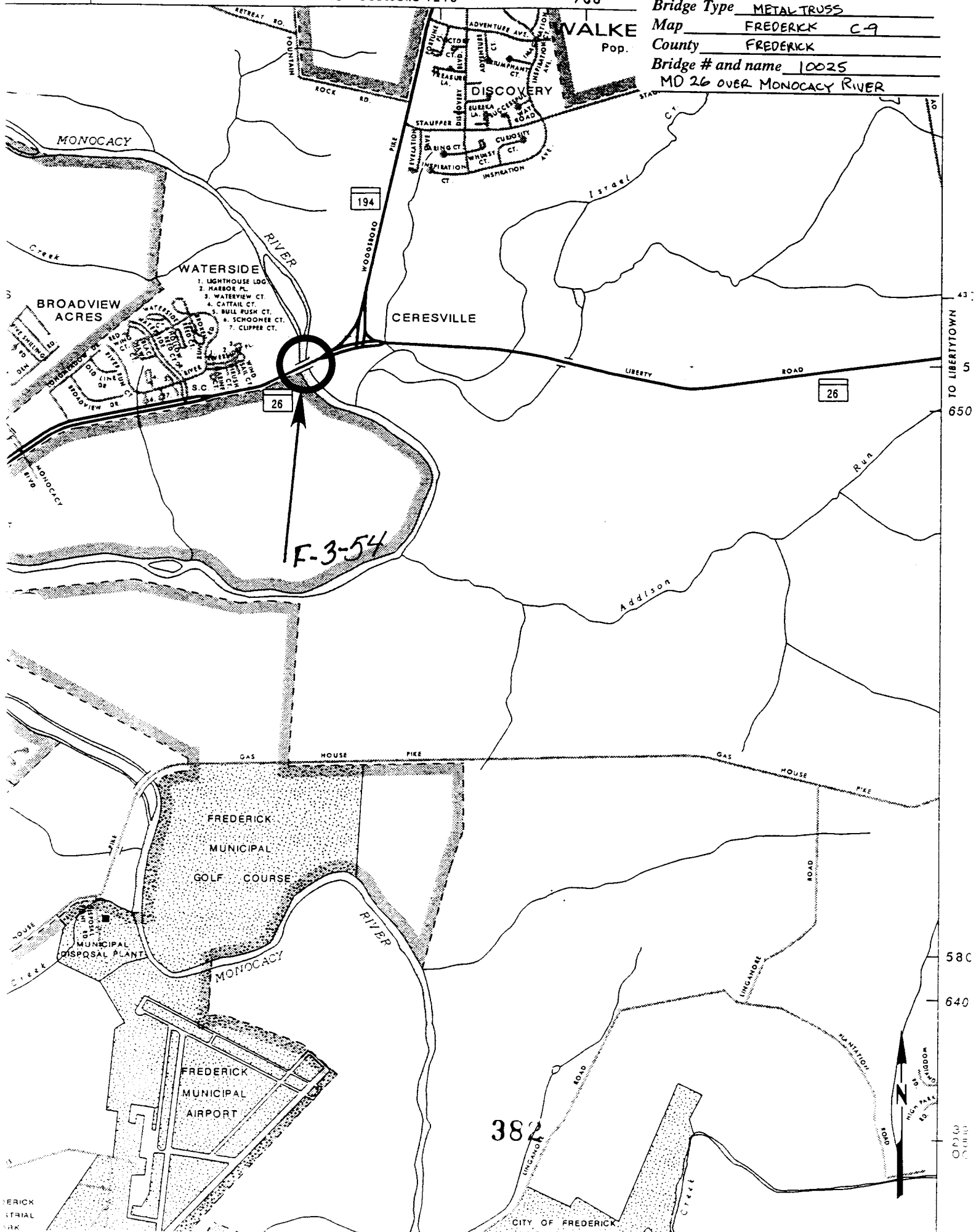
Bridge Type METAL TRUSS

Map FREDERICK C-9

County FREDERICK

Bridge # and name 10025

MD 26 OVER MONOCACY RIVER







1. F-3-54

2. 10025, MID 26 over, Monocacy Run

3. Frederick's County, MD

4. Ayan Mottay

5. July 1997

6. MID SPRS

7. East approach

8. 1 of 3



1. F-3-54

2. 10025, no 22 over Mordecai Run

3. Fredrick County, Md.

4. River mouth

5. July 387

6. no 4-10

7. with approach

8. 2 of 3



1. F-3-54

2. 16075, MD 24 over Newberry, Ala.

3. Fredrick's Court, MD

4. Ryan Meeting

5. July 1963

6. MD 5410

7. Donastine House

8. 3 of 3

F-3-54

1932

Maryland Route 26/Monocacy River Bridge  
Ceresville vicinity  
public (unrestricted)

This bridge, which carries Maryland Route 26 over the Monocacy River near Ceresville, Maryland, consists of two camelback steel through trusses, each measuring 160 feet in length. A concrete bent supports the junction of the two trusses, which in turn support a 27 foot wide roadway.

Erected in 1932, this structure was built by the American Bridge Company. The Maryland Route 26/Monocacy River Bridge is one of six historic truss bridges -- part of Maryland's state road system in Frederick County, and one of 26 bridges of the same structural type throughout the state road network -- identified by the Maryland Historical Trust for the Maryland Department of Transportation in a jointly conducted survey produced during 1980-81.

## INVENTORY FORM FOR STATE HISTORIC SITES SURVEY

**1 NAME**

HISTORIC

AND/OR COMMON

Maryland 26/Monocacy River Bridge

**2 LOCATION**

STREET &amp; NUMBER

CITY, TOWN

Ceresville

☒ VICINITY OF

CONGRESSIONAL DISTRICT

6th

STATE

Maryland

COUNTY

Frederick

**3 CLASSIFICATION**

## CATEGORY

☐ DISTRICT  
☐ BUILDING(S)  
☒ STRUCTURE  
☐ SITE  
☐ OBJECT

## OWNERSHIP

☒ PUBLIC  
☐ PRIVATE  
☐ BOTH

## PUBLIC ACQUISITION

☐ IN PROCESS  
☐ BEING CONSIDERED

## STATUS

☒ OCCUPIED  
☐ UNOCCUPIED  
☐ WORK IN PROGRESS  
**ACCESSIBLE**  
☐ YES RESTRICTED  
☒ YES UNRESTRICTED  
☐ NO

## PRESENT USE

☐ AGRICULTURE ☐ MUSEUM  
☐ COMMERCIAL ☐ PARK  
☐ EDUCATIONAL ☐ PRIVATE RESIDENCE  
☐ ENTERTAINMENT ☐ RELIGIOUS  
☐ GOVERNMENT ☐ SCIENTIFIC  
☐ INDUSTRIAL ☒ TRANSPORTATION  
☐ MILITARY ☐ OTHER

**4 OWNER OF PROPERTY**

NAME

State Highway Administration DOT Survey Telephone #:

STREET &amp; NUMBER

301 West Preston Street

CITY, TOWN

Baltimore

VICINITY OF

STATE, zip code

Maryland 21201

**5 LOCATION OF LEGAL DESCRIPTION**

COURTHOUSE

REGISTRY OF DEEDS ETC.

Frederick County Courthouse

Liber #:

Folio #:

STREET &amp; NUMBER

CITY, TOWN

Frederick

STATE

Maryland

**6 REPRESENTATION IN EXISTING SURVEYS**

TITLE

DATE

☐ FEDERAL ☐ STATE ☐ COUNTY ☐ LOCALDEPOSITORY FOR  
SURVEY RECORDS

CITY, TOWN

STATE

## 7 DESCRIPTION

### CONDITION

☐ EXCELLENT

☒ GOOD

☐ FAIR

☐ DETERIORATED

☐ RUINS

☐ UNEXPOSED

### CHECK ONE

☒ UNALTERED

☐ ALTERED

### CHECK ONE

☒ ORIGINAL SITE

☐ MOVED      DATE \_\_\_\_\_

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DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

This bridge, which carries Maryland Route 26 across the Monocacy in and E-W direction consists of two camelback steel through trusses of 160' in length each. The junction of the trusses is supported on a concrete bent. All connections are riveted. The roadway is 27' wide across the structure.

CONTINUE ON SEPARATE SHEET IF NECESSARY



# 8 SIGNIFICANCE

F-3-54

PERIOD		AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW				
PREHISTORIC	<input type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION		
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE		
<input type="checkbox"/> 1500-1599	<input type="checkbox"/> AGRICULTURE	<input type="checkbox"/> ECONOMICS	<input type="checkbox"/> LITERATURE	<input type="checkbox"/> SCULPTURE		
<input type="checkbox"/> 1600-1699	<input type="checkbox"/> ARCHITECTURE	<input type="checkbox"/> EDUCATION	<input type="checkbox"/> MILITARY	<input type="checkbox"/> SOCIAL/HUMANITARIAN		
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input checked="" type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER		
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input checked="" type="checkbox"/> TRANSPORTATION		
<input checked="" type="checkbox"/> 1900-	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input type="checkbox"/> OTHER (SPECIFY)		
		<input type="checkbox"/> INVENTION				

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SPECIFIC DATES	1932	BUILDER/ARCHITECT	American Bridge Company
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STATEMENT OF SIGNIFICANCE

See M/DOT Survey general bridge significance, attached.

CONTINUE ON SEPARATE SHEET IF NECESSARY

F-3-59

**9 MAJOR BIBLIOGRAPHICAL REFERENCES**

Files of the Bureau of Bridge Design, State Highway Administration, 301 West Preston Street, Baltimore, Md. drawer 92.

Condit, Carl, American Building Art, 20th Century; New York, Oxford University Press, 1961.

CONTINUE ON SEPARATE SHEET IF NECESSARY

**10 GEOGRAPHICAL DATA**

ACREAGE OF NOMINATED PROPERTY \_\_\_\_\_  
Quadrangle Name: Walkersville, MD  
Quadrangle Scale: 1:24 000  
UTM References: 3. 12. 1. 48. 1-70

VERBAL BOUNDARY DESCRIPTION

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	COUNTY
STATE	COUNTY

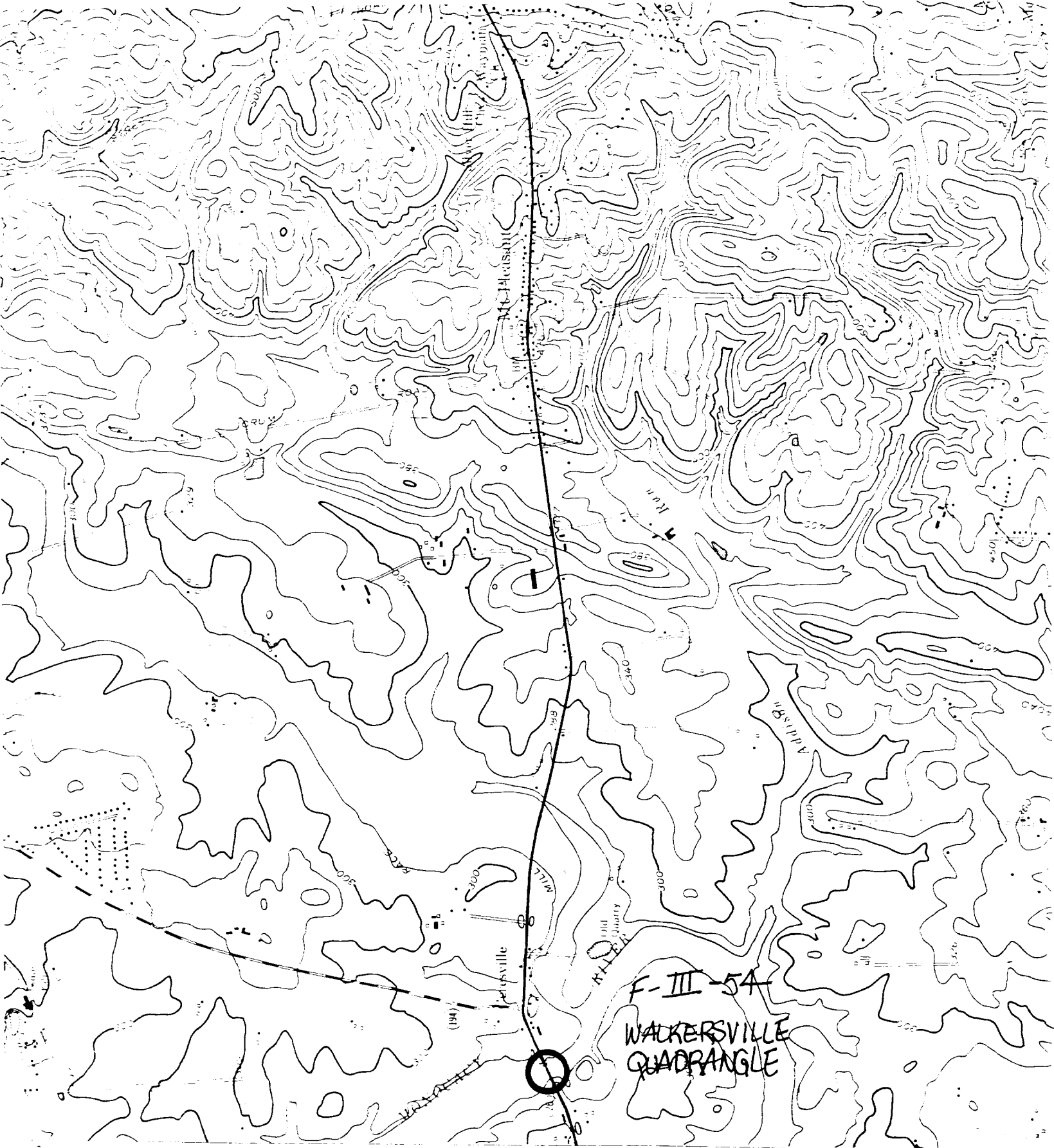
**11 FORM PREPARED BY**

NAME / TITLE	
John Hnedak/M/DOT Survey Manager	
ORGANIZATION	DATE
Maryland Historical Trust	1980
STREET & NUMBER	TELEPHONE
21 State Circle	(301) 269-2438
CITY OR TOWN	STATE
Annapolis	Maryland 21401

The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature, to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 Supplement.

The Survey and Inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

RETURN TO: Maryland Historical Trust  
The Shaw House, 21 State Circle  
Annapolis, Maryland 21401  
(301) 267-1438



F-III-54  
WALKERSVILLE  
QUADRANGLE

5562 V NW  
FREDERICK

FREDERICK 3.5 M

0/14

0/14



AMERICAN BRIDGE  
COMPANY  
U.S.A. 1932.

10025

Discovery

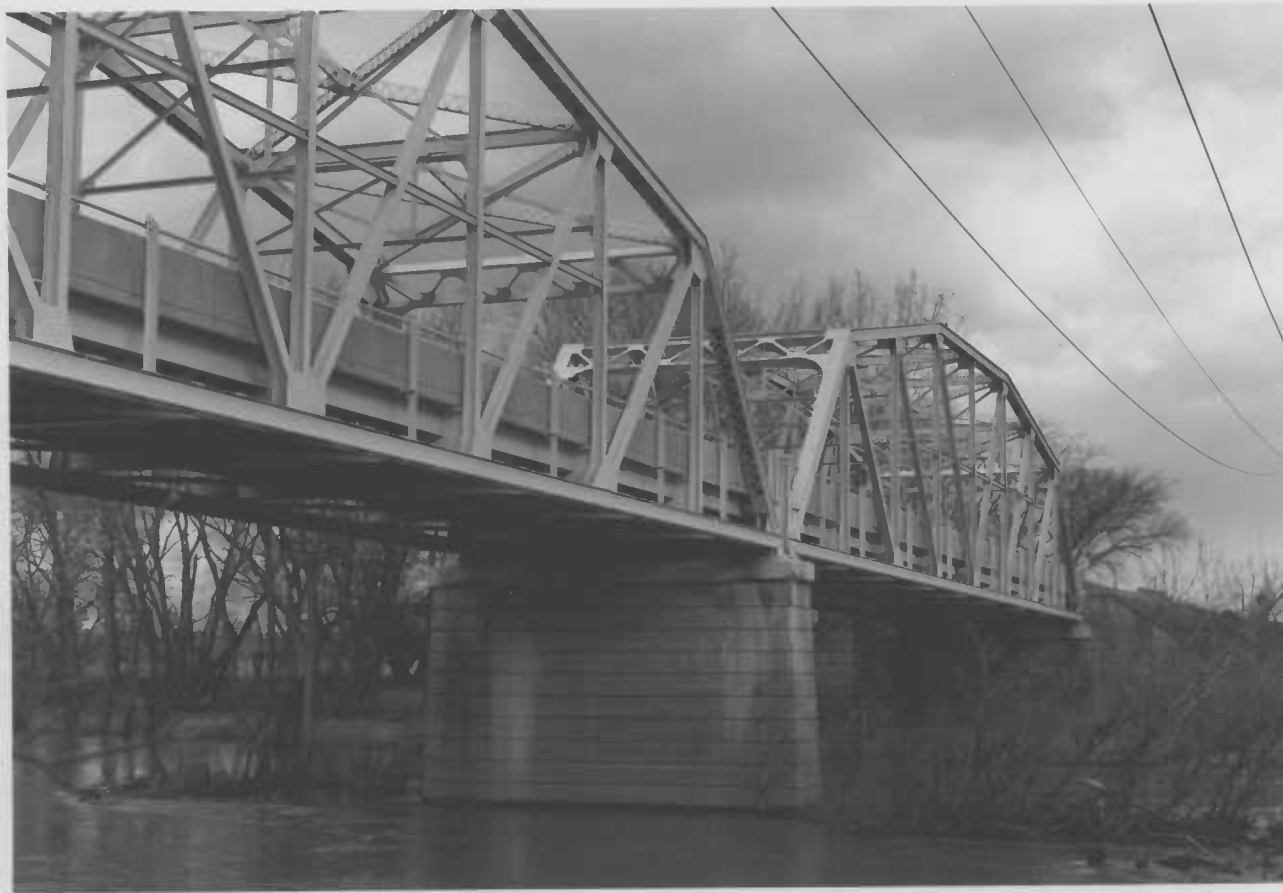
F-III-54

Md 26/ Monocacy

M/DOT

Hnedak/Meyer

Autumn 1980



F-III-54

Md 26/Monocacy

M/DOT

Hnedak/Meyer

Autumn 1980